

Problems of Strength in Machinery (Cont.)

SOV/2561

of internal friction in rotating shafts at speeds of rotation above the critical. The author analyzes the rotation of a single-disk weightless shaft vibrating at a frequency low enough to exclude the possibility of deviation of the disk.

Gusarov, A.A. Flexural Unsteady-state Vibrations of a Flexible Rotor With Two Equal Unbalanced Masses

54

The author uses a previously obtained solution for the analysis of the transition through critical speeds of a shaft with two disks of equal weight, placed equidistant from the supports, and having differently located disbalance vectors. Two cases are discussed; 1) when the eccentricities of the disks are equal, and 2) when they are unequal. The use of the results for the dynamic balancing of flexible rotors with two equal masses is explained.

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Problems of Strength in Machinery (Cont.) SOV/2561

Grobov, V.A. Unsteady-state Flexural Vibrations of
Elastically Supported Rotors, Taking the Gyroscopic Effect
Into Account

88

This article is an investigation of the relationship between gyroscopic effect and unsteady-state transverse vibrations of rotors with flexible shafts on elastic bearings during transition through critical speeds. Two cases are treated, one in which the elastic supports have a linear characteristic with equal or different radial rigidity, and one in which one support is rigid, the other is elastic with a nonlinear characteristic, and the coefficients of radial rigidity are the same.

AVAILABLE: Library of Congress

Card 4/4

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11-30-59

GROBOV, V.A.

Nonstationary deflection vibrations of elastically supported
rotors taking into consideration the gyroscopic effect. Probl.
proch. v mashinostr. no.1:88-106 '58. (MIRA 12:4)
(Rotors--Vibration)

20-119-5-4/59

AUTHOR: Grobov, V.A.

TITLE: A Method for the Averaging of Canonic Equations With a "Quasicyclic" Angular Coordinate (Metod usredneniya kanonicheskikh uravneniy, soderzhashchikh "kvazitsiklicheskuyu" uglovuyu koordinatu)

PERIODICAL: Doklady Akademii Nauk, 1958, Vol 119, Nr 5, pp 858-860 (USSR)

ABSTRACT: Let a dynamic system depend on r coordinates q_1, q_2, \dots, q_r and the angular coordinate φ . Let the canonic motion equations be

$$(1) \frac{dq_k}{dt} = \frac{\partial H}{\partial p_k}, \quad \frac{dp_k}{dt} = -\frac{\partial H}{\partial q_k}; \quad \frac{d\varphi}{dt} = \frac{\partial H}{\partial p_{r+1}}, \quad \frac{dp_{r+1}}{dt} = -\frac{\partial H}{\partial \varphi},$$

where μ is a small parameter and

$$H = H_0(q, p) + \mu H_1(q, \varphi, p) + \mu^2 H_2(q, \varphi, p) + \dots,$$

where H_0 denotes a certain quadratic form.

According to the asymptotic method of Krylov and Bogolyubov [Ref 2] in the first approximation the author puts

$$(2) \quad q_k^{(1)} = a_k \cos(\varphi + \psi_k),$$

where a_k and ψ_k are considered as slowly variable functions of time. After

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A Method for the Averaging of Canonic Equations With a "Quasicyclic" 20-119-5-4/59
Angular Coordinate

some transformations one obtains

$$(3) \begin{aligned} \frac{da_k}{dt} &= F_k(a_1, \dots, a_r, \varphi + \psi_1, \dots, \varphi + \psi_r) \sin(\varphi + \psi_k) \\ \frac{d\psi_k}{dt} &= \frac{1}{a_k} F_k(a_1, \dots, a_r, \varphi + \psi_1, \dots, \varphi + \psi_r) \cos(\varphi + \psi_k). \end{aligned}$$

In order to eliminate the so-called "quasicyclic" variable φ , the functions F_k are averaged, i.e. instead of the variable the mean value of the integral over a period is taken. All calculations are made as it is usual in the asymptotic method of Bogolyubov. Finally the author obtains a system of equations for the determination of the a_k and ψ_k . [Error estimations of this approximate solution are not given]

There are 3 Soviet references.

PRESENTED: December 2, 1957, by N.N.Bogolyubov, Academician

SUBMITTED: November 18, 1957

Card 2/2

REV 1 3004 EXP 07/31/65

PART I. DOCUMENTS

Abstracts and notes. Institut malenovskyan.

Voprosy prochnosti i materialov i konstruktivnykh problem o stoychosti materialov i struktur. Moscow, 1979. 359 p. Errata ally inserted. 3,000 copies printed.

Author: M. I. N. Bubakov, Professor, Doctor of Technical Sciences.

Ed. of Publishing House G. I. Gor'kiy, Sov. Akad. Nauk SSSR.

NOTES: This book is intended for engineers and scientists concerned with the problem of the strength of materials and construction.

CONTENTS: The book contains 20 articles on the strength of materials in general and of machine construction in particular. This collection was prepared under the direction of the Institute of Mechanical Engineering of the USSR in honor of Sergei Malenovskyan's 70th birthday. One of the founders and director of the Institute, he has made significant contributions to the development of the national school of scientists in the field of mechanics of materials, the recently completed 50 years of academic activity. The present collection of short sketches of his life and professional activities. The collection is divided into two parts. The first part contains 13 articles on specific problems of strength and the strength of machine construction materials. The second part contains 13 articles on dynamics and vibration of structures and rigidities. There are references at the end of each article.

PART II. DYNAMICS AND CALCULATION OF STRUCTURES AND MACHINES

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Case 6/6

6-77-2

16(1), 16(2), 24(6)
AUTHOR: Grobov, V.A.

SOV/41-11-2-13/17

TITLE: On the Construction of Asymptotic Approximations of Nonstationary Processes in Nonlinear Gyroscopic Systems With the Aid of the Averaging Principle

PERIODICAL: Ukrainskiy matematicheskiy zhurnal, 1959, Vol 11, Nr 2, pp 213-216 (USSR)

ABSTRACT: The author shows that instationary oscillations of nonlinear gyroscopic systems can be investigated with the aid of the averaging principle of N.M.Krylov and N.N.Bogolyubov, if the motion equations are brought to a special form according to the method of B.V.Bulgakov by the introduction of the so-called "normal coordinates". The first approximations for amplitudes and phases obtained in this manner are given by the author separately for autonomous and non-autonomous systems. The author mentions Yu.A.Mitropol'skiy. There are 4 Soviet references.

SUBMITTED: November 20, 1958

Card 1/1

GROBOV, V.A. [Hrobov, V.O.] (Riga)

Nonstationary vibrations of a flexible shaft on elastic supports
taking the gyroscopic effect into consideration. Prykl. mekh. 6
no.1:20-30 '60. (MIRA 13:6)
(Rotors--Vibration)

GROBOV, V. A.

"Nonlinear problems of turbine rotor dynamics"

Paper presented at the Intl. Symposium on Nonlinear Vibrations, Kiev, USSR,
9-19 Sep 61

Institute of Mathematics of Academy of Sciences of the Ukrainian SSR, Kiev,
USSR

GROBOV, Valerian Alekseevovich; ARTOBOLEVSKIY, I.I., akademik, otd. red.;
DIKUSHIN, V.I., akademik; red.; SERENSEN, S.V., akademik, red.;
PINGUIN, S.V., doktor tekhn. nauk, prof., red.; LEVITSKIY, A.I.,
doktor tekhn. nauk, prof., red.; DIMENTBERG, F.M., doktor tekhn.
nauk, red.; KOBRINSKIY, A.Ye., doktor tekhn. nauk, red.;
RAYEVSKIY, N.P., kand. tekhn. nauk, red.; BESSONOV, A.P., kand. tekhn.
nauk, red.; ORPIK, S.L., red. izd-va; LAUT, V.O., tekhn. red.

[Asymptotic methods for calculating bending vibrations of turbo-
machine rotors] Asimptoticheskie metody rascheta izgibnykh ko-
lebanii valov turbomashin. Moskva, Izd-vo Akad. nauk SSSR,
1961. 165 p. (MIRA 14:5)

1. Akademiya nauk USSR (for Serensen)
(Impellers--Vibration)

SERENSEN, Sergey Vladimirovich, akademik; BUGLOV, Yevgeniy Georgiyevich;
GARF, Mikhail Ernestovich; KOZLOV, Leonid Aleksandrovich;
KORSAKEVICH, Nikolay Ivanovich; KRAMARENKO, Oksana Yur'yevna;
SLUTSKAYA, Ol'ga Borisovna; GROBOV, V.A., doktor tekhn. nauk,
red.; PECHIKOVSKAYA, O.M., red. izd-va; SKLYAROVA, V.Ye.,
tekhn. red.

[Strength under nonstationary loading conditions] Prochnost' pri
neostatsionarnykh rezhimakh nagruzki. Kiev, Izd-vo Akad. nauk
USSR, 1961. 294 p. (MIRA 15:2)

1. Akademiya nauk USSR (for Serensen).
(Strains and stresses) (Metals—Fatigue)

GROBOV, V.A. (Riga)

Calculating amplitudes of lateral vibrations of multidisk rotors
supported by nonlinearly flexible supports. Izv.AN SSSR.Otd.tekh.nauk.
Mekh.i mashinostr. no.3:113-116 My-Je '61. (MIRA 14:6)
(Rotors—Vibration)

25178

S/041/61/013/002/006/007
B112/B203

16.3400

AUTHOR: Grobov, V. A.

TITLE: Unsteady oscillations of nonlinear systems with gyroscopic terms in consideration of the connection with an energy source of low productivity

PERIODICAL: Ukrainskiy matematicheskiy zhurnal, v. 13, no. 2, 1961,
220 - 223

TEXT: The equations of oscillation of the system considered are the differential equations:

$$\sum_{j=1}^n (a_{ij}(\tau) \ddot{q}_j + b_{ij}(\tau) \dot{q}_j + c_{ij}(\tau) q_j) = \\ = Q_1 (\tau; q_1, q_2, \dots, q_n; \dot{q}_1, \dot{q}_2, \dots, \dot{q}_n) + F_1 (\tau, q_1, \dot{q}_1, \ddot{q}_1). \quad (1)$$

whose coefficients weakly depend on time, and satisfy the conditions:

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$a_{ij}(\tau) = a_{ji}(\tau)$, $b_{ij}(\tau) = -b_{ji}(\tau)$, $c_{ij}(\tau) = c_{ji}(\tau)$. μ is a small parameter. The equation for the autorotation of the system is:

$$J_o \frac{d^2 \varphi}{dt^2} = \mu \Phi(\tau; q_1, \dots, q_n; \dot{q}_1, \dots, \dot{q}_n; \ddot{q}_1, \dots, \ddot{q}_n; \varphi, \dot{\varphi}, \ddot{\varphi}) + \mu \Delta M(\dot{\varphi}), \quad (2)$$

where J_o is the moment of inertia of the rotor with respect to the axis of rotation, $\Delta M(\dot{\varphi})$ is a small additional moment, and $d\varphi/dt = \omega(t)$ the angular velocity of the rotor. The nonlinear functions Φ in Eq. (1) express weak elastic and dissipative forces, the functions μF_i weak disturbances, the function $\mu \Phi$ the interrelation between the oscillatory and the rotational motion of the system, i. e., the possibility of an energy exchange between oscillation and rotation. The author sets up the solutions of Eq. (1) in first approximation:

$$q_j^{(k)} = a_k \sigma_{jk}(\tau) e^{i(\varphi + \psi_k)} + a_k \sigma_{jk}^*(\tau) e^{-i(\varphi + \psi_k)}, \quad (3)$$

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where $\delta_{jk} = (\bar{\sigma}_{jk} + i \omega_{jk})/2$ are the fundamental solutions of the undisturbed system (1), σ'_{jk} the conjugate complex functions with respect to ω_{jk} . The amplitude a_k and the phase angle ψ_k can be determined in first approximation from the equations:

$$da_k / dt = \mu A_1^{(k)} (\tau, a_k, \psi_k, \omega),$$

$$d\psi_k / dt = \omega_k - \omega + \mu B_1^{(k)} (\tau, a_k, \psi_k, \omega), \quad (4)$$

the functions $A_1^{(k)}$ and $B_1^{(k)}$ appearing in them, from the system of equations

$$\begin{aligned} m_1^{(k)}(\tau) [\lambda_k(\tau) - \omega(\tau)] \frac{\partial A_1^{(k)}}{\partial \psi_k} - [2m_1^{(k)}(\tau) \lambda_k(\tau) + m_2^{(k)}(\tau)] B_1^{(k)} = \\ = -m_3^{(k)}(\tau) a_k + \frac{\mu}{2\pi} \int_0^{2\pi} \sum_{i=1}^n [Q_i + F_i] [\bar{\sigma}_{ik}(\tau) \cos \theta_k - \bar{\sigma}_{ik}(\tau) \sin \theta_k] d\theta_k. \end{aligned}$$

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$$\begin{aligned}
 m_1^{(k)}(\tau) [\lambda_k(\tau) - \omega(\tau)] a_k \frac{\partial B_1^{(k)}}{\partial \phi_k} + [2m_1^{(k)}(\tau) \lambda_k(\tau) + m_2^{(k)}(\tau)] A_1^{(k)} = \\
 = - \left[\frac{d}{d\tau} (m_1^{(k)}(\tau) \lambda_k(\tau)) + m_3^{(k)}(\tau) \right] a_k - \\
 - \frac{\mu}{2\pi} \int_0^{2\pi} \sum_{l=1}^n (Q_l + F_l) [\bar{\sigma}_{lk}(\tau) \sin \theta_k + \bar{\sigma}_{lk}^*(\tau) \cos \theta_k] d\theta_k. \quad (6)
 \end{aligned}$$

where

$$m_1^{(k)}(\tau) = \sum_{l=1}^n \sum_{j=1}^n a_{lj}(\tau) \sigma_{lk}(\tau) \sigma_{jk}^*(\tau),$$

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$$im_2^{(k)}(\tau) = \sum_{l=1}^n \sum_{j=1}^n b_{lj}(\tau) \sigma_{lk}(\tau) \sigma_{jk}^*(\tau).$$

$$m_3^{(k)}(\tau) = \sum_{l=1}^n \sum_{j=1}^n b_{lj}(\tau) \frac{d\sigma_{lk}(\tau)}{d\tau} \sigma_{jk}^*(\tau) = \bar{m}_3^{(k)}(\tau) + \bar{i}m_3^{(k)}(\tau).$$

Eq. (2) can be substituted by the equation:

$$J_0 \frac{d\Delta\Omega}{dt} = \mu \tilde{\Phi}(\tau, \omega_k, \psi_k, \dots) + \mu \Delta M(\Omega), \quad (10)$$

where $\tilde{\Phi}$ is the mean value of Φ . There are 6 Soviet-bloc references. X

SUBMITTED: October 25, 1960

Card 5/5

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26.3.20

S/681/62/000/008/003/004
E081/E141

AUTHOR: Grobov, V.A.

TITLE: Joint transverse vibrations of a shaft and massive elastic supports, allowing for the gyroscopic effect of the rotor

SOURCE: Akademiya nauk Latviyskoy SSR. Institut avtomatiki i mehaniki. Voprosy dinamiki i prochnosti. no.8, 1962, 61-65

TEXT: The problem arises in connection with the determination of the frequency spectrum of vibrations in turbine equipment. For purposes of mathematical analysis, the actual system is replaced by a simplified system consisting of a flexible weightless shaft carrying an unbalanced disc unsymmetrically situated with respect to the supports, which are simulated by concentrated masses situated at the end of the shaft, and connected to an immovable foundation by two springs. Expressions are derived for the kinetic and potential energies and, assuming that the static and dynamic unbalance of the disc are small, the characteristic

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vibration equation is obtained as an 8 X 8 determinant. The particular case corresponding to identical rigidities of the supports in the radial direction is considered in detail, the modes of vibration are established and described, and resonance curves are calculated. Formulae for the amplitude of vibration are given, derived by the asymptotic method of N.N. Bogolyubov and Yu.A. Mitropol'skiy (Asimptoticheskiye metody v teorii nelineynykh kolebaniya (Asymptotic methods in the theory of nonlinear vibrations), Fizmatgiz, 1958). The effect of nonlinear characteristics in the supports is also analysed. There are 5 figures.

Card 2/2

BULGVITS, A.C.; ZAV'YALOV, G.A.; GROBOV, V.A., doktor tekhn.nauk, retsenzent
GORBOV, P.S., kand.tekhn.nauk, red.

[Stability of shaft motion in fluid friction bearings]
Ustoichivost' dvizheniya valov v podshipnikakh zhidkostnogo treniia. Moskva, Izd-vo "Mashinostroenie" 1964. 146 p.
(↑ IRA 17:7)

AM, V, L, E, G-1.

Report of the Chairman of the Inspectors of the International Commission for
the Control of Nuclear Weapons, 1998. 217 p. (9-11210)

PROG. NO. 191.

GROPOV, V. I. , comp.

Manual for the car inspector 5. izd., ispr. i d p. Moskva, Gos. transp. ahel-dor.
izd-vo, 1952. 207 p. (5h-19699)

TF600.R9 19.2

LAPSHIN, F.A., GOROV, V.I.

[Construction, inspection and repair of railroad cars] Ustroistvo, osmotr i
remont wagonov. Moskva, Gos. transp. zhel-dor. izd-vo, 1953. 413 p.
(MLRA 6:9)
(Railroads--Cars)

GROBOV, V.I.

LAPSHIN, Fedor Alekseyevich; GROBOV, Vladimir Ivanovich; BOCHARNIKOVA, K.N.,
redaktor; VERINA, O.P., tekhnicheskiy redaktor

[Construction, inspection, and repair of railroad cars] Ustroistvo,
osmotr i remont vagonov. Izd. 2-e, ispr. i diop. Moskva, Gos. transp.
zhel-dor. izd-vo 1954. 429 p.
(MIRA 8:4)
(Railroads—Cars)

LAPSHIN, Fedor Alekseyevich; CHOBOV, Vladimir Ivanovich; BRAYLOVSKIY, N.G., inzh.,
red.; BOBROVA, Ye.N., tekhn.red.

[Construction and maintenance of cars] Ustroistvo i remont
vagonov. Izd. 3-e, ispr. i dop. Moskva, Gos.transp.zhel-dor.
izd-vo, 1958. 447 p.
(Railroads--Cars) (MIRA 12:2)

25(1)

PHASE I BOOK EXPLOITATION

SOV/1370

Ural'skiy zavod tyazhelogo mashinostroyeniya, Sverdlovsk

Proizvodstvo krupnykh otlivok (Making of Large Castings) Moscow,
Mashgiz, 1958. 108 p. (Series: Its: Sbornik statey, vyp. 4)
5,500 copies printed.

Ed.: Fetisov, I.M., Engineer. Exec. Ed. (Siberian Division, Mashgiz):
Kaletina, A.V., Engineer; Tech. Ed.: Dugina, N.A.

PURPOSE: The book is prepared by the Plant organization of NTOmashprom
(Scientific and Technical Society of Machine Building Industry) and
is intended for engineering and scientific workers.

COVERAGE: The book was prepared for the 25th Anniversary of the
Uralmashzavod (Ural Heavy Heavy Machinery Building plant imeni
S. Ordzhonikidze). The stages of founding development in the plant
and the plant's progress and achievements in this field are described.

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Making of Large Castings

SOV/1370

The book includes articles on the most interesting research work concerning improvement of the quality of castings and economy of labor. The results of an investigation of the causes of cracks in castings weighing up to 80 tons are presented; the nature of stone-like fractures and methods for combating them are described; experience in hardening molds and cores is analyzed. Also described is oxygen heating-up of cast iron in the spout of a cupola furnace. No personalities are mentioned. There are no references.

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Making of large Castings	SOV/1370
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AVAILABLE: Library of Congress

Card 3/3

GO/ksv
4-21-59

sov/81-59-16-57869

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 16, p 310 (USSR)

AUTHOR: Grobov, Ye.B.

TITLE: The Chemical Hardening of Molds and Cores

PERIODICAL: Sb. statey. Ural'skiy z-d tyazh. mashinostr. im. S. Ordzhonikidze, 1958,
Nr 4, pp 28-47

ABSTRACT: The properties of a molding mixture which is based on liquia glass are investigated. They are studied after chemical hardening as a function of the duration of blowing (1 sec - 5 min) and the CO₂ pressure (from 1 to 4 atm), the duration of keeping in the air before and after chemical hardening at various temperatures, modules of the liquid glass, etc.

G. Maslenikova.

Card 1/1

GROBOVA, K.I.; SLEPTSOVA, O.M.

Synthesis of α -monomethacrylic ester of glycerol. Study po khim.i
khim.tekh. no.1:172-173 '63. (MIRA 17:12)

SLEPTSOVA, O.M.; GROBOVA, K.I.; KOTON, M.M.

Synthesis of unsaturated esters of hydroxamic acids. Zhur. ob. khim. 33 no.8:2568-2570 Ag '63. (MIRA 16:11)

KALIMULLIN, B.G., otv. red.; DOKHTUROV, P.P., red.; YEFIMOV, V.N., red.; GROBOVA, Yu.P., red.; SHAFIN, I.G., tekhn. red.

[Problems of designing and building in Ufa] Voprosy planirovki i zastroiki Ufy. Ufa, 1961. 78 p.

(MIRA 17:3)

1. Geograficheskoye obshchestvo SSSR, Bashkirskiy filial.
2. Chlen-korrespondent Akademii stroitel'stva i arkhitek-tury SSSR (for Kalimullin).

BAGDANOV, K.Sh.; ARDACHOVA, O.I.; MIKYUL' V, V.S.; RAYNUL' R,
G.B., doktor sel'khoz. nauk, otd. red.; GROBOVA, Yu.P.,
red.

[Distribution and economic effectiveness of the production
of industrial crops in Bashkiria] Razmeshchenie i ekonomi-
cheskaya effektivnost' proizvodstva tekhnicheskikh kul'tur
v Bashkirii. Ufa, Bashkirskii filial AN SSSR, 1963. 62. p.
(MIRA 17:6)

GROBOVIKOV, Yu.A.

Deep-water echo-sounder "Polius." Probl. Arkt. i Antarkt. no.10:
90-91 '62. (MIRA 16:2)
(Deep-sea sounding)

YAGOLA, G.K.; ZINGERMAN, V.I.; GROBOVITSKIY, M.I.; SEPETYY, V.N.

Testing samples of hard-magnetic materials subjected to pulsed magnetization. Izm. tekhn. no.1:40-43 Ja '65. (MIRA 18:4)

GRBOVITSKII, Ye. B., KIVAN, I. Ya. and VITSEV, I. I.

"Apparatus for the Graphic Recording of Changes in the Level of Blood Vesicle During Physiological Experiment." Fizikal i Teknik, No. 2, p. 57, 1951.

RECORDED
Plowing of land from oil and wire in the course of oil-field development. (002
Russia, U.S.S.R., Sov. 3/4, Sept. 1954. Italian, English)

SC: Monthly List of First Entries in Geographical, Economic, Social, and Political
Area 1953, Ital.

GROBOWSKA, Helena; GROMSKA, Jadwiga

Convulsions in children according to the material of the Mental
Disease Clinic in Gdansk. Neurol. neurochir. psychiat. pol.
13 no.6:867-871 N-D'63

1. Z Oddzialu Dziecięcego Kliniki Chorob Psychicznych AM w
Gdansku; kierownik: prof.dr. T.Bilikiewicz.

*

GROBSHTEYN, A.S.

Using magnetoelastic pickups to measure the weight of a drilling tool.
Izv. vys. ucheb. zav.; naft' i gaz 8 no.6:105-109 '65. (MIRA 18:7)

1. Azerbaydzhanskiy institut nafti i khimii im. M. Azizbekova.

GRODSHTEYN, A.Ye.; ZHOLOBOV, S.P.; IPATOVA, M.D.

Sorption of carbon dioxide from porous active metals by
absorbents. Zhur. prikl. khim. 38 no.4:900-905 Ap '65.
(MIRA 18:6)

GRODSHTEYN, A. Y.; F. J. B. SMITH; D. SYKES, JR.

obtaining from the people for the benefit of the State, and the State being taxed by 165.

7. We have already seen that the first three of these are, in general, not enough to determine the state of the system, and that therefore there must be at least one more, and possibly many more, free parameters.

GROBSHTYN, F. I.

USSR/ Chemistry - Physical chemistry

Card : 1/1 Pub. 116 - 6/20

Authors : Yurzhenko, A. I. and Grobshtyn, F. I.

Title : Rate of decomposition of tertiary butyl peroxides in an aqueous medium

Periodical : Ukr. khim. zhur. 20, Ed. 4, 373 - 380, 1954

Abstract : The rate of decomposition of tertiary butyl peroxides (peroxide widely used as initiator of emulsion polymerization) in an aqueous medium, was investigated in the presence of various electrolytes and emulsified hydrocarbons. The effect of H- and OH-ions on the rate of decomposition of the investigated peroxide and the effect of salts on the catalytic characteristics of these ions, are explained. The specific effect of emulsifiers and their dependence upon the chemical nature of their molecules, were established. Six references: 5-USSR; 1-Ukrainian, which includes 1-English; 1-USA; 1-German; and 1-Italian, (1931-1952). Tables: graphs.

Institution : Institute of Medicine, Faculty of Gen. Chemistry, Lvov

Submitted : April 3, 1953

N
GROBSHTEYN, M. Kh.

Concerning so-called "trifles." Geog. v shkole 19 no.2:65
Mr-Ap '56. (MLRA 9:7)
(Geography--Study and teaching)

GROBSHTYN, N.Kh., zaveduyushchiy kabinetom geografii; GOLDIN, A.S.,
nauchnyy sotrudnik

Brief news. Geog. v shkole 22 no.2:87 Mr-Ap '59.

(MIRA 12:6)

1. Smolenskiy oblastnoy institut usovershenstvovaniya uchiteley
(for Grobshtyn). 2. Muzei zemlevedeniya Moskovskogo gosudar-
stvennogo universiteta (for Goldin).
(Smolensk Province--Geography--Study and teaching)
(Globes)

GROBSHTYN, Naum Khatskelevich; VASIL'YEVA, O.V., red.; TSVETKOVA, S.V., tekhn.
red.

[Interesting questions in geography] Zanimatel'nye voprosy po
geografii. Moskva, Gos. uchebno-pedagog. izd-vo M-va prosv.
RSFSR, 1957. 59 p. (MIRA 11:5)
(Geography--Examinations, questions, etc.)

GROBSHTYN, N.Kh.

"Amusing problems in geography" by B.A. Magornyi. Reviewed by
N.Kh. Grobshtyn. Geog. v shkole 22 no.3:88-89 My-Je '59.
(MIRA 12:11)

(Geography--Study and teaching)
(Magornyi, B.A.)

OKHAPKIN, F.P. (g.Kirov); YAKOVLEV, N.M. (g. Ul'yanovsk); GROBSHTEYN,
N.Kh. (Smolensk) RUTKOVSKIY, O.O.

Discussion of new geography programs. Geog.v shkole 22 no.6:
61-71 N-D '59. (MIRA 13:4)

1. 4-y shkola Alma-Aty. (for Rutkovskiy)
(Geography—Study and teaching)

GROBSHTEYN, N.

Seminar of superintendents of geography study rooms in the
institutes of post graduate training for teachers. Geog.
v shkole 23 no.5:85 S - 0 '60. (MIRA 13:9)
(Geography—Study and teaching)

15-57-5-6700
Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 5,
p 145 (USSR)

AUTHOR: Grobshteyn, S. R.

TITLE: Perspectives for Off-Shore Petroleum Extraction
(Perspektiva razvitiya dobychi nefti na morskikh
mestorozhdeniyakh)

PERIODICAL: V sb: Puti izucheniya gidrometeorol. rezhima i
osvoyeniya akvatoriy neft. promyslov Kaspiysk. morya.
Baku, Azerb. in-t, 1956, pp 7-11

ABSTRACT: The number of off-shore wells in 1954 was 2.4 times
that of 1949; petroleum extraction increased by 3
times and now comprises 24 percent of all petroleum
extracted in Azerbaijan. Deep exploratory marine
wells are being drilled in ten areas; structural
exploration is being conducted in four areas. New
petroleum deposits have been revealed; the outlines

Card 1/2

15-57-5-6700

Perspectives for Off-Shore Petroleum Extraction (Cont.)

of old petroleum deposits have been made more precise. The basic petroleum deposits are being developed with the use of water injection. The net cost of extraction of off-shore petroleum is now no more than 60 percent of the average net cost of extraction of petroleum on land.

Card 2/2

N. A. Ye.

ALIKHANOV, E.N.; GROBSHTYN, S.R.

Effectiveness of using appropriate drive methods in the
Neftyanaya Kamni oil fields. Aserb.neft.khov. 35 no.4:5-9
Ap '56. (MLRA 9:10)

(Neftyanaya Kamni--Petroleum engineering)

GROBSHTYUL, S. R.; ZAMANOV, B.A.; KULIYEV, I.P.; NEGREYEV, V.P.;
FARKHADOV, A.A.

Electrochemical protection in thin films of sea water and possi-
bilities for using it to prevent corrosion of submerged portion
of piles. Azerb.neft.khoz.36 no.2:38-41 P '57. (MLRA 10:4)
(Corrosion and anticorrosives)
(Oil well drilling, Submarine)

GROBSHTEYN, S.R.

Increasing oil extraction from the Sub-Kirmaki₂ horizon
of the Neftyanye Kamni. Azerb.neft.khoz. 36 no.7:24-28
Jl '57. (MIRA 10:10)
(Apsheron Peninsula--Petroleum engineering)

GROBSHTEYN, S.B., Cand. Tech. Sci. --(diss) "Certain problems
of mining ~~soil~~ petroleum deposits (On the example of
the PK deposit Petroleum Stones)." Baku, 1956, 13 p.
(Min of Higher Education USSR. Azerbayzhan Order of
Labor Red Banner Industrial Inst im M. Azizbekov)
150 copies (KL, 50-58, 12h)

- 56 -

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Analysis for the displacement of the oil-water boundary along the
sub-Kirmaki series in the Neftyanye Kamni field. Azerb. neft. khoz.
37 no.1:25-29 Ja '58. (MIRA 11:6)
(Neftyanye kamni—Oil well drilling, Submarine)

GEOBSHTEN, S.R.; GUKASOV, N.A.; KASIMOV, A.F.; MOVSUMZADE, M.S.

Sand removal from the filter area in wells when well-bottom pressure
is equal to or greater than the saturation pressure. Azerb. neft.
khos. 37 no.9:26-28 8 '58. (MIRA 11:12)
(Sand)

GROBSHTEYN, S.R.

Effect of screen pipe clogging on well productivity. Azerb.neft.khoz,
37 no.12:23-26 D '58.
(Sand)

GROBSHTEYN, S.R.; GUKSOV, N.A.; KASIMOV, A.F.; MOVSUMZADE, M.S.

Determining the diameter of a lift in flush production. Azerb.neft.
khoz. 38 no.4:32-34 Ap '59. (MIR 12:7)
(Oil fields--Production methods)

MURAV'YEV, I.M., prof.; ARZUMANOV, Sh.K., inzh.; ARKHANGEL'SKIY, N.K., inzh.; BAZLOV, M.N., inzh.; GROBSHTYN, S.R., kand.tekhn.nauk; ZHUKOV, A.I., dotsent, MACHMUDIEKOV, B.A., inzh.; MOVSESOV, N.S., inzh.; MURAV'YEV, V.M., inzh.; NEGREYEV, V.P., kand.tekhn. nauk; PLOTNIKOV, S.G., kand.tekhn.nauk; PODGORNOV, M.I., inzh.; RUBACHEV, G.N., kand.ekon.nauk; SULTANOV, D.K., inzh.; SHTER, B.O., inzh.; SAVINA, Z.A., vedushchiy red.; POLOSINA, A.S., tekhn.red.

[Reference book on petroleum production] Spravochnik po dobyche nefti. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry. Vol.3. 1960. 712 p. (MIRA 13:5)
(Oil fields--Production methods)

GROBSHTEYN, S.R.

Outlook for the development of petroleum production in submerged areas of the Caspian sea during 1956-1960 in connection with the lowering of the sea level and the ice drift. Trudy Okean. kom. 5:295-299 '59. (MIRA 13:6)
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GROBSHTEYN, SOLOMON ROMANOVICH

Nekotoryye Voprosy Razrabotki Morskikh Neftyanykh Mestorozhdeniy. Baku, Baku
Azerneftneft, 1960.

198 17 p. Illus., Diagrs., Graphs, Tables. 22 cm.

Bibliography: p. 197-199

GROBSHTEYN, S. S.

16759

Medicine - Rhinitis, Atrophic
Medicine - Blood Transfusion

May/Jun 1948

"Histomorphological Variations in the Mucous Membrane of the Nasal Cavities Before and After Treatment of Chronic Ozena With Aeroinhalation and Blood Transfusion," S. S. Grobshteyn, Dr Med Sci, Ear, Nose and Throat Chair and Chair of Path Anat, Leningrad Med Pediatrics Inst, 6 pp

"Vest Oto-Rino-Laringol" Vol I, No 3

Presents various data supporting value of subject method, and clarifying its effect on regeneration of the mucous membrane.

76759

GROBSHTEYN, S.S., doktor meditsinskikh nauk

Application of biological hemostatic preparations of blood in
otolaryngologic practice. Vest. oto-rin. 16 no. 2:63-64 Mr-Ap '54.
(MLRA 7:6)

1. Iz otdeleniya bolezney ucha, gorla i nosa (zav. doktor meditsinskikh nauk S.S.Grobshteyn) bol'nitsy Oktiabr'skoy zheleznoy dorogi i iz laboratoriil sukhikh preparatov Leningradskogo instituta perelivaniya krovi.

(HEMOSTASIS,

*in otorhinolaryngol.)

(OTORHINOLARYNGOLOGY,

*hemostatic substances in)

GROBSHTEYN, S.S., doktor meditsinskikh nauk

Results of application of preventive measures in angina and chronic tonsillitis. Vest.oto-rin. 17 no.2:21-24 Mr-Ap '55. (MLRA 8:7)

1. Iz otdeleniya bolezney ukha, gorla i nosa dorozhnoy bol'nitsy
Oktyabrskoy zheleznoy drogi.
(TONSILLITIS, prevention and control)

GROBSHTEYN, S.S., doktor meditsinskikh nauk

Use of a hemostatic sponge and a hemostatic tampon with antibiotics
in otolaryngological surgery. Vest. oto-rin. 18 no.5:26-28 S-0 '56.

(MLRA 9:11)

Iz oto-laringologicheskogo otdeleniya bol'ницы Oktyabr'koy
sheleznoy dorogi i laboratorii sukhikh preparatov Leningradskogo
instituta perelivaniya krovi.

(OTORHINOLARYNGOCLOGICAL DISEASES, surg.
use of hemostatic sponges and tampons with antibiotics)

(TAMPONS

hemostatic tampons & sponges, use in otorhinolaryngol.
surg.)

GROBSHTEYN, S.S., doktor meditsinskikh nauk

1957

Lipid deposits in the fibroelastic tissue of the tympanic membrane in
atherosclerosis [with summary in English] Vest. oto-rin. 19 no.1:81-83
Ja-F '57 (MLRA 10:4)

1. Iz kliniki bolezney ukha, gorla i nosa Leningradskogo pediatriceskogo
instituta (zav.-prof. D.M. Rutenburg) i otdeleniya bolezney ukha,
gorla i nosa dorozhnoy bol'nitsy Oktyabr'skoy zheleznoy dorogi.

(TYMPANIC MEMBRANE, pathol.

lipid deposits in fibroelastic tissue of membrane in
atherosclerosis) (Rus)

(ARTERIOSCLEROSIS, pathol.

lipid deposits in fibroelastic tissue of tympanic
membrane) (Rus)

(LIPIDS, metab. same)

GROBSHTZYN, S.S., doktor med.nauk

Cases of foreign bodies in the bronchi. Vest. otc.-rin. 20 no.3:99-100
(MIRA 11:6)
My-Je '58

1. Is otolaringologicheskogo otdeleniya Ob'yedinennoy bol'nisny
Oktyabr'skoy zheleznoy dorogi, Leningrad.
(BRONCHI, for. bodies
rubber tube aspirated during anesth. (Rus))

GROBSHTEYN, S.S., prof.

Treatment of blocked pulmonary caverns by bronchoscopy and intratracheal use of drugs. Zhur. ush., nos. 1 gorl. bol. 20 no. 3:49-52 My-Je '60. (MIRA 14:4)

1. Klinika bolezney ukha, gorla i nosa Chitinskogo meditsinskogo instituta. (TUBERCULOSIS) (BRONCHOSCOPY)

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G. S. - 1. 1.

B-5

CZECHOSLOVAKIA/General Biology, Genetics.

Abs Jour: Ref. Zh.-Biol., No 9, 1957, 35226

Author : Groch, J.; Hurny S.

Inst :
Title : The Influence of Vegetation on Some Elements of a Micro-
climate and on an Organism

Orig Pub: Ceskosl. hyg., epidemiol., mikrobiol., imunol., 1955, 4, No 9,
462-465

Abstract: No abstract.

Card : 1/1

-13-

GROCH, Julius, inz.

Laboratory compensation pressure gauge. Vodohosp cas 11
no. 3:336-339 '63.

1. Ceskoslovenska akademie ved, Ustav hydrologie a hydrauliky,
Slovenska akademia vied.

GROCH, Juraj

Some functional changes in pupils of the 10th form during work
in building industry. Cesk. hyg. 7 no.2/3:176-178 '62.

1. Ustav hygieny a epidemiologie Lekarskej fakulty UPJS v Kosiciach.
(VOCATIONAL EDUCATION) (CENTRAL NERVOUS SYSTEM physiol)
(PHYSICAL FITNESS in adolescence)

GROCH, Juraj; za technickej spoluprace VRANAYOVEJ, E.; SARAYOVEJ, S.

Estimation of the time schedule for young school children. Cesk. pediat.
17 no.4:368-372 Ap '62.

1. Ustav hygieny a epidemiologie Lek. fak. University P. J. Safarik
v Kosiceach, prednosta MUDr. R. Pospisil, CSc.

(CENTRAL NERVOUS SYSTEM physiol)
(SCHOOL HEALTH)

GROCH, J.

CZECHOSLOVAKIA

no academic degree indicated

Institute for Hygiene and Epidemiology, Medical Faculty, P.J. Safarik University
(Ustav hygieny a epidemiologie Lekarskej fakulty UPJS), Kosice

Prague, Ceskoslovenska Hygiena, No 9, Oct 62, pp 522-527.

"Problems of Hygiene in Organizing the Daily Routine in School Day Hostels"

GROCH, J.

Our first experiences with the practical teaching of hygiene in the
6th course of general medicine. Cesk. hyg. 7 no. 7:407-409 Ag '62.

1. Ustav hygiény a epidemiologic Lekarskej fakulty University P.J.
Safarika v Kosiciach.
(HYGIENE education)

GROCH, J.

Our experiences with the application of conditioned reflex to time in the study of changes of cortical processes in school children. p. 525.

CESKOSLOVENSKA HYGIENA. Praha, Czechoslovakia. Vol. 4, no. 9, Oct. 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, January 1960.

Uncl.

EXCERPTA MEDICA Sec 17 Vol 5/12 Public Health Dec 59

3829. THE ORGANIZATION OF THE DAILY CURRICULUM AT SCHOOL AS A HYGIENIC PROBLEM - Organizacia režimu dňa v škole ako hygienický problém - Groch J., Kat. Hyg. LF UK, Košice - LEK.OBZ. 1959, 8/2 (87-97)

The success of work at school depends largely on the degree to which the daily school curriculum corresponds to the physiological needs of the pupils of the different age groups. At school age, the decisive factor in the daily programme is the learning at school and at home. If the stress of learning is too great, the normal functional condition of the cells of the CNS is disturbed. A disequilibrium between the stimulatory and inhibitory processes develops, giving rise to a condition of reduced working capacity and fatigue. The fundamental requirement for good working capacity of the pupil is regular alternation of work and recreation. It is, therefore, necessary to keep strictly to the intervals between lesson hours, and between work at school and at home. These intervals should be rationally utilized. An excessive amount of homework leads, apart from unfavourable changes in the organism, to a reduction of the pupils' time of recreation in the open air and their sleep, which causes impairment of their development and general health. To avoid these undesirable changes, it is necessary to ensure a regular and adapted amount of homework. The daily programme at home should be in accordance with that at school. This is achieved by close co-operation with the school. The teachers and parents should realize the hygienic significance of the daily curriculum and should both be concerned with its maintenance. Only if the pupil's daily programme at home is organically associated with that at school can results be expected in the form of a general reduction of fatigue, improvement of progress, and normal development.

Q R O O H

Time 10:00 AM - 11:00 AM, 7-27-00	
(continued)	
20.	Students at the University of Wisconsin, Milwaukee, Wisconsin, during the period 1968-1970.
21.	Further research on the University of Wisconsin, Milwaukee, Wisconsin, during the period 1968-1970.
22.	Application of Section 7(e) in the Joint Resolution of Congress, 92-454, Public Law 92-454, October 22, 1972, to the University of Wisconsin, Milwaukee, Wisconsin, during the period 1968-1970.
23.	Conclusion of the Committee on Education, Congress, concerning the Joint Resolution of Congress, 92-454, Public Law 92-454, October 22, 1972.
24.	

2050

— 49 —

GROCH, J.; technicka spolupraca SABADOSOVA, S.; VRANAYOVA, E.

Hygienic problems of the organization of the daily regimen in school day-hostels. Cesk. hyg. 7 no.9:522-527 0 '62.

1. Ustav hygieny a epidemiologie Lekarskej fakulty UPJS, Kosice.
(SCHOOL HEALTH)

GROCH, J.

On the problem of the outdoor stay of pupils. Cesk. hyg. 8
no.4:199-201 My '63.

1. Katedra hygieny a epidemiologie Lekarskej fakulty UPJS,
Kosice. (SCHOOL HEALTH) (RECREATION) (REST)

GROCH, J.

Concept of accuracy in electrolytic vessel measuring. El tech
cas 14 no.1:49-50 '63.

CZECHOSLOVAKIA

GROCH, J.

Chair of Hygiene and Epidemiology of the Medical
Faculty UJEP (Univerzita J. E. Purkyně v Brně, Faculty of
Medical Faculty, J. E. Purkyně), Brno

Prague, Problemy leteckého hygienika, No. 4, 1963, pp 199-201
on the problem of outdoor effects of "vuln."

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Sources of errors of measurement in electrolytic tanks. El tech
cas 15 no.8:503-505 '64.

VRBA, J.; GROCH, J.

The present status of hygiene textbooks at the schools of general medicine. *Cesk. hyg.* 10 no.8:474-479 3 '65.

1. Katedra hygieny vysoborného lekarství Karlovy Univerzity, Praha a Katedra hygieny a epidemiologie lekarské fakulty Univerzity P.J. Šafárika, Košice.

GROCH, Ladislav

Effect of the tetrachloromethane on the pathomorphological picture
of the dog liver. Veterinarni medicina 6 no.12:913-916 '61.

1. Katedra pre patologicku morfologiu a fyziologiu, Veterinarni
fakulta, Vysoka skola zemedelska, Brno.

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Grech, L.

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GROCHAL, M.

Complex saving of coal and electric power; from the National Conference. p. 223.
(WILADOWSKI ELEKTROTECHNICZNE. Vol. 16, no. 9, Sept. 1956, Warszawa, Poland)

SO: Monthly List of East European Accessions (EAL) LC. Vol. 6, no. 12, Dec. 1957.
Uncl.

GROCHAL, M.

Separation of large pieces of run-of-mine coal. Pt. 1 (To be contd.)

P. 5. (ENERGETYKA) (Warszawa, Poland) Vol. 12, no. 1, Jan. 1958

SO: Monthly Index of East European Accession (EEAI) IC Vol. 7, No. 5, 1958

GROCHAL, Marian, mgr inz.

The problems of protecting the atmosphere from pollution by industrial plants. Pt.2. Energetyka Pol 14 no.5:129-134 Maj '60. (EEAI 9:10)
(Air)

GROCHAL, Marian, dipl. ing. (Poland); SOCHANSKI, Jan, dipl. Ing. (Poland)

Problems of selecting economically as well as technically well based steam parameters from the point of view of technological consumption. Ipari energia 5 no.3:70 M '64.

GRCHEV, L. V.

(Lead. Sci. Advisor)

"Spectra of Gamma Rays from Radiative Capture of Thermal Neutrons for Even-Even Radioactive Nuclei with Rotational Levels."

"Characteristics of Gamma Transitions in Light Odd-Odd Nuclei, formed in the Capture of Thermal Neutrons,"

Papers submitted for presentation at the Intl. Conference on the Neutron Interactions with the Nucleus, 9-13 Sept. 1957. Columbia Univ. New York

first paper prepared with A. M. Demidov, V. N. Lutsenko and V. I. Polekhov,
second paper prepared with A. M. Demidov

GROCHMAL, S.

Physical education in tuberculosis sanatoria and preventoria
for children. Pediat. polska 27 no. 1:86-98 Jan 1952. (CLML 22:4)

GROCHMAL, Stanislaw

Surgical therapy of "spasticity" and rehabilitation of patients with spastic paralysis of the lower extremity. Polski tygod. lek. 14 no.44: 1958-1963 2 Nov 59.

1. (Z Oddz. fizikal. medyc. i rehabilitacji Szpitala: Highland View Hospital w Cleveland Ohio, St. Zjedn: kierownik Oddzialu: dr Mieczyslaw Puszczynski prof. klincz. fizyk: medyc. i rehabilitacji w Western Reserve University, Cleveland).
(PARALYSIS SPASTIC, surg.)

GROCHMAL, Stanislaw; PIOTROWSKA, Barbara

Effect of organized exercise on the physical condition of children
in preventoria. Gruzlica 28 no.6:463-470 Je '60.

1. Z Zespolu Naukowo-Badawczego Instytutu Gruzlicy w Krakowie
Kierowniki: prof. dr St. Hornung
(TUBERCULOSIS prev & control)
(EXERCISE THERAPY)

GROCHMALICKA.

1 Vitamin C content of cabbage and its dependence on the vegetative development of the plant. Aleksandra Smoczek-Górecka, Teresa Górnokowska, and Janina Grochmalicka

(Acad. Med., Poznań, Poland). *Acta Biol. Pol.* 10: 237-45 (1959) (English summary).--The greatest amt. of vitamin C is found in the parts of cabbage which are growing most vigorously, and it depends on the ripeness of the plant.

Edward A. Ackermann

GROCHMALICKA, J. ; SMOCZKIEWICZOWA, A.

Chromatographic investigations of ascorbic acid transformations in biological material. p. 183.

CHIMIA ANALITYCZNA. Warszawa, Poland, "o. 8, August 1959.

Monthly List of East European Accessions (EFAI). LC, Vol. 8, No. 11 November 1959.

Uncl.

SMOCZKIEWICZOWA, Aleksandra; GŁOCHALICKA, Janina

Use of barbituric and thiobarbituric acids in the evaluation of the stability of ascorbic acid. Acta pol. pharm. 18 no.6:515-519 '61.

1. Z Zakladu Chemii Nieorganicznej i Analytycznej Akademii Medycznej w Poznaniu Kierownik: prof. dr M. Szmytowa.
(VITAMIN C chem) (BARBITURATES chem)

SMOCZKIEWICZOWA, A.; GROCHALICKA, J.

On stabilization of ascorbic acid in solutions. Bull. soc. amis sci.
poznan [med] 11:81-90 '62.
(VITAMIN C chemistry)

GROCHOCKA, Krystyna

POLAND

BAC, Maria; GROCHOCKA, Krystyna

1. Dept. of Geological Cartography, Univ. of Warsaw (Zakład Kartografii Geologicznej Uniwersytetu Warszawskiego) (for Bac?);
2. Laboratory of Geological Cartography, Dept. of Geological Sciences, Polish Academy of Sciences (Pracownia Kartografii Geologicznej Zakładu Nauk Geologicznych PAN), Warsaw (for Grochocka?)

Warsaw, Acta Geologica Polonica, No 3, July-Sept 1969,
pp 211-348.

"Structure of the fold of Czorneo Mierchy on the East side
of Dolina Kościeliska in the Tatras."

GROCHOCKA-ILICKO, Krystyna

Geological structure of Wyznia Swistowka Hollow. Acta geol
Pol 13 no.2:239-270 '63.

1. Laboratory of Dynamic Geology, Univ. of Warsaw.